

WEST Search History

DATE: Friday, October 18, 2002

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L6 (((((514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724 or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537)and (arthropod or mosquito))and (glycolic or oxalic or acetic or hydracrylic or pyruvic or glyceric or hydroxypyruvic or malonic or hydroxybutyric or methyllactic or butyric or malic or oxovaleric or hydroxyvaleric or methylvaleric or hexanoic or mercaptoacetic or thiolactic or mercaptopropionic or thiopropionic or bromopropionic or bromobutyric or chloropropionic or chloropropionic or lactic or formic))and (carbon dioxide or ketone or alkyl or aldehyde or alcohol or halogenated or nitrile or ether or sulfide or sulphide and heterocyc\$10 or acetone or pentanone or butanone or hexanone or heptanone or butanedione or pentanedione or isoprene or heptene or octene or nonene or methanol or ethanol or heptenol or octenol or formaldehyde or acetaldehyde or butryaldehyde or isobutyraldehyde or nonanol or benzaldehyde or methylene chloride or chloroform or carbon tetrachloride or bromoform or acetonitrile or benzonitrile or phenylacetoneitrile or disulfide or disulphide or sulfoxide or sulphoxide)) and attract\$10)

84 L6

L5 (((((514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724 or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537)and (arthropod or mosquito))and (glycolic or oxalic or acetic or hydracrylic or pyruvic or glyceric or hydroxypyruvic or malonic or hydroxybutyric or methyllactic or butyric or malic or oxovaleric or hydroxyvaleric or methylvaleric or hexanoic or mercaptoacetic or thiolactic or mercaptopropionic or thiopropionic or bromopropionic or bromobutyric or chloropropionic or chloropropionic or lactic or formic)) and (carbon dioxide or ketone or alkyl or aldehyde or alcohol or halogenated or nitrile or ether or sulfide or sulphide and heterocyc\$10 or acetone or pentanone or butanone or hexanone or heptanone or butanedione or pentanedione or isoprene or heptene or octene or nonene or methanol or ethanol or heptenol or octenol or formaldehyde or acetaldehyde or butryaldehyde or isobutyraldehyde or nonanol or benzaldehyde or methylene chloride or chloroform or carbon tetrachloride or bromoform or acetonitrile or benzonitrile or phenylacetoneitrile or disulfide or disulphide or sulfoxide or sulphoxide))

170 L5

(((514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724

L4	or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537)and (arthropod or mosquito))and (glycolic or oxalic or acetic or hydracrylic or pyruvic or glyceric or hydroxypyruvic or malonic or hydroxybutyric or methylactic or butyric or malic or oxovaleric or hydroxyvaleric or methylvaleric or hexanoic or mercaptoacetic or thiolactic or mercaptopropionic or thiopropionic or bromopropionic or bromobutyric or chloropropionic or chloropropionic or lactic or formic)) and (carbon dioxide or ketone or alkyl or aldehyde or alcohol or halogenated or nitrile or ether or sulfide or sulphide and heterocyc\$10 or acetone or pentanone or butanone or hexanone or heptanone or butanedione or pentanedione or isoprene or heptene or octene or nonene or methanol or ethanol or heptenol or octenol or formaldehyde or acetaldehyde or butryaldehyde or isobutyraldehyde or nonanol or benzaldehyde or methylene chloride or chloroform or carbon tetrachloride or bromoform or acetonitrile or benzonitrile or phenylacetonitrile or disulfide or disulphide or sulfoxide or sulphoxide))	170	L4
L3	((514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724 or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537) and (arthropod or mosquito))	602	L3
L2	((514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724 or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537) and (arthropod or mosquito))	602	L2
L1	(514/553 or 514/557 or 514/579 or 514/675 or 514/694 or 514/699 or 514/706 or 514/707 or 514/708 or 514/715 or 514/722 or 514/724 or 514/731 or 514/739 or 514/743 or 514/762 or 514/763 or 514/764 or 424/84 or 424/405 or 424/537)	8280	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 08:57:55 ON 18 OCT 2002)

FILE 'REGISTRY' ENTERED AT 09:00:41 ON 18 OCT 2002

L1 1 S PYRUVIC ACID/CN
L2 1 S ACETONE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:01:19

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:03:51 ON 18 OCT 2002

SET SMARTSELECT ON
L3 SEL L1 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:03:56

ON

18 OCT 2002

L4 69748 S L3/BI

FILE 'REGISTRY' ENTERED AT 09:06:46 ON 18 OCT 2002

SET SMARTSELECT ON
L5 SEL L2 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:06:50

ON

18 OCT 2002

L6 572256 S L5/BI
L7 69929 S L1 OR L4
L8 572421 S L2 OR L6
L9 3384 S L7 AND L8
L10 21 S L9 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L11 20 DUP REM L10 (1 DUPLICATE REMOVED)
L12 75 S L7 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L13 61 DUP REM L12 (14 DUPLICATES REMOVED)
L14 556 S L7 (9999A) L8
L15 450 DUP REM L14 (106 DUPLICATES REMOVED)

=> d his ful

(FILE 'HOME' ENTERED AT 08:57:55 ON 18 OCT 2002)

FILE 'REGISTRY' ENTERED AT 09:00:41 ON 18 OCT 2002

L1 1 SEA PYRUVIC ACID/CN
L2 1 SEA ACETONE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
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CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
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CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
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ON

18 OCT 2002

L6 572256 SEA L5/BI
L7 69929 SEA L1 OR L4
L8 572421 SEA L2 OR L6
L*** DEL 3384 S L7 AND L8
L*** DEL 21 S L13 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 20 DUP REM L15 (1 DUPLICATE REMOVED)
D 1-20
L*** DEL 75 S L7 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 61 DUP REM L17 (14 DUPLICATES REMOVED)
D 1-61
D 41 IALL
D 38 IALL
L*** DEL 556 S L7 (9999A) L8
L*** DEL 450 DUP REM L18 (106 DUPLICATES REMOVED)
D 1-450 KWIC

D 151 IALL

FILE 'REGISTRY' ENTERED AT 09:31:15 ON 18 OCT 2002

L9 1 SEA GLYCOLIC ACID/CN
L10 1 SEA LACTIC ACID/CN
L11 1 SEA CARBON DIOXIDE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:31:56

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:32:09 ON 18 OCT 2002

D L11

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:32:11

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:32:23 ON 18 OCT 2002

L12 SET SMARTSELECT ON
SEL L9 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:32:25

ON

18 OCT 2002

L13 46682 SEA L12/BI

FILE 'REGISTRY' ENTERED AT 09:34:52 ON 18 OCT 2002

L14 SET SMARTSELECT ON
SEL L10 1- CHEM : 14 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:34:54

ON

18 OCT 2002

L15 302537 SEA L14/BI

FILE 'REGISTRY' ENTERED AT 09:38:07 ON 18 OCT 2002

L16 SET SMARTSELECT ON
SEL L11 1- CHEM : 12 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:38:09

ON

18 OCT 2002

L17 985775 SEA L16/BI
L18 46668 SEA L9 OR L13
L19 302270 SEA L10 OR L15
L20 367987 SEA L11
D L17

FILE 'REGISTRY' ENTERED AT 09:49:59 ON 18 OCT 2002

D L11

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:50:05

ON

18 OCT 2002

L21 997153 SEA L20 OR CARBON DIOXIDE OR CARBON OXIDE OR CARBON-12
DIOXIDE
OR CARBON 12C DIOXIDE-1602 OR CARBONIC ACID ANHYDRIDE OR
CARBONIC ACID GAS OR CARBONIC ANHYDRIDE OR DRY ICE OR KHLADON
744 OR R 744
L22 3409 SEA L19 AND L8 AND L21
L23 37 SEA L22 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L24 35 DUP REM L23 (2 DUPLICATES REMOVED)
D 1-35
D 18 IALL

d his ful

(FILE 'HOME' ENTERED AT 08:57:55 ON 18 OCT 2002)

FILE 'REGISTRY' ENTERED AT 09:00:41 ON 18 OCT 2002

L1 1 SEA PYRUVIC ACID/CN
L2 1 SEA ACETONE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ES BIOBASE, ...' ENTERED AT 09:01:19

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:03:51 ON 18 OCT 2002

SET SMARTSELECT ON
L3 SEL L1 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ES BIOBASE, ...' ENTERED AT 09:03:56

ON

18 OCT 2002

L4 69748 SEA L3/BI

FILE 'REGISTRY' ENTERED AT 09:06:46 ON 18 OCT 2002

SET SMARTSELECT ON
L5 SEL L2 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ES BIOBASE, ...' ENTERED AT 09:06:50

ON

18 OCT 2002

L6 572256 SEA L5/BI
L7 69929 SEA L1 OR L4
L8 572421 SEA L2 OR L6
L*** DEL 3384 S L7 AND L8
L*** DEL 21 S L13 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 20 DUP REM L15 (1 DUPLICATE REMOVED)
D 1-20
L*** DEL 75 S L7 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 61 DUP REM L17 (14 DUPLICATES REMOVED)
D 1-61
D 41 IALL
D 38 IALL
L*** DEL 556 S L7 (9999A) L8
L*** DEL 450 DUP REM L18 (106 DUPLICATES REMOVED)
D 1-450 KWIC
D 151 IALL

FILE 'REGISTRY' ENTERED AT 09:31:15 ON 18 OCT 2002
L9 1 SEA GLYCOLIC ACID/CN
L10 1 SEA LACTIC ACID/CN
L11 1 SEA CARBON DIOXIDE/CN

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ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:31:56
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FILE 'REGISTRY' ENTERED AT 09:32:09 ON 18 OCT 2002
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ON
18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:32:23 ON 18 OCT 2002
SET SMARTSELECT ON
L12 SEL L9 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
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L13 46682 SEA L12/BI

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L14 SEL L10 1- CHEM : 14 TERMS
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L15 302537 SEA L14/BI

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L17 985775 SEA L16/BI
L18 46668 SEA L9 OR L13
L19 302270 SEA L10 OR L15
L20 367987 SEA L11
D L17

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L21 997153 SEA L20 OR CARBON DIOXIDE OR CARBON OXIDE OR CARBON-12
DIOXIDE
OR CARBON 12C DIOXIDE-1602 OR CARBONIC ACID ANHYDRIDE OR
CARBONIC ACID GAS OR CARBONIC ANHYDRIDE OR DRY ICE OR KHLADON
744 OR R 744
L*** DEL 3409 S L19 AND L8 AND L21
L*** DEL 37 S L22 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 35 DUP REM L*** (2 DUPLICATES REMOVED)
D 1-35
D 18 IALL
L22 294 SEA L19 (9999A) L8 (9999A) L21
L23 280 DUP REM L22 (14 DUPLICATES REMOVED)
D 1-280 KWIC

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CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
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L6 572256 SEA L5/BI
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L8 572421 SEA L2 OR L6
L*** DEL 3384 S L7 AND L8
L*** DEL 21 S L13 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 20 DUP REM L15 (1 DUPLICATE REMOVED)
D 1-20
L*** DEL 75 S L7 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L*** DEL 61 DUP REM L17 (14 DUPLICATES REMOVED)
D 1-61
D 41 IALL
D 38 IALL
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L*** DEL 450 DUP REM L18 (106 DUPLICATES REMOVED)
D 1-450 KWIC

D 151 IALL

FILE 'REGISTRY' ENTERED AT 09:31:15 ON 18 OCT 2002

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L10 1 SEA LACTIC ACID/CN
L11 1 SEA CARBON DIOXIDE/CN

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FILE 'REGISTRY' ENTERED AT 09:32:09 ON 18 OCT 2002

D L11

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:32:11

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:32:23 ON 18 OCT 2002

L12 SET SMARTSELECT ON
SEL L9 1- CHEM : 9 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:32:25

ON

18 OCT 2002

L13 46682 SEA L12/BI

FILE 'REGISTRY' ENTERED AT 09:34:52 ON 18 OCT 2002

L14 SET SMARTSELECT ON
SEL L10 1- CHEM : 14 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:34:54

ON

18 OCT 2002

L15 302537 SEA L14/BI

FILE 'REGISTRY' ENTERED AT 09:38:07 ON 18 OCT 2002

L16 SET SMARTSELECT ON
SEL L11 1- CHEM : 12 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:38:09

ON

18 OCT 2002

L17 985775 SEA L16/BI
L18 46668 SEA L9 OR L13
L19 302270 SEA L10 OR L15
L20 367987 SEA L11
D L17

FILE 'REGISTRY' ENTERED AT 09:49:59 ON 18 OCT 2002

D L11

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:50:05

ON

18 OCT 2002

L21 997153 SEA L20 OR CARBON DIOXIDE OR CARBON OXIDE OR CARBON-12
DIOXIDE

OR CARBON 12C DIOXIDE-1602 OR CARBONIC ACID ANHYDRIDE OR
CARBONIC ACID GAS OR CARBONIC ANHYDRIDE OR DRY ICE OR KHLADON
744 OR R 744

L*** DEL 3409 S L19 AND L8 AND L21

L*** DEL 37 S L22 AND (MOSQUITO? OR AEDES OR ANOPHELES)

L*** DEL 35 DUP REM L23 (2 DUPLICATES REMOVED)

D 1-35

D 18 IALL

L*** DEL 294 S L19 (99999A) L8 (99999A) L21

L*** DEL 280 DUP REM L22 (14 DUPLICATES REMOVED)

D 1-280 KWIC

L22 1959 SEA L21 AND L18 AND L19

L23 13 SEA L22 AND (MOSQUITO? OR AEDES OR ANOPHELES)

L24 12 DUP REM L23 (1 DUPLICATE REMOVED)

D 1-12

L25 1867 DUP REM L22 (92 DUPLICATES REMOVED)

(FILE 'HOME' ENTERED AT 08:57:55 ON 18 OCT 2002)

FILE 'REGISTRY' ENTERED AT 09:00:41 ON 18 OCT 2002

L1 1 S PYRUVIC ACID/CN

L2 1 S ACETONE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:01:19

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:03:51 ON 18 OCT 2002

SET SMARTSELECT ON

L3 SEL L1 1- CHEM : 9 TERMS

SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:03:56

ON

18 OCT 2002

L4 69748 S L3/BI

FILE 'REGISTRY' ENTERED AT 09:06:46 ON 18 OCT 2002

SET SMARTSELECT ON

L5 SEL L2 1- CHEM : 9 TERMS

SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:06:50

ON

18 OCT 2002

L6 572256 S L5/BI

L7 69929 S L1 OR L4

L8 572421 S L2 OR L6

FILE 'REGISTRY' ENTERED AT 09:31:15 ON 18 OCT 2002

L9 1 S GLYCOLIC ACID/CN

L10 1 S LACTIC ACID/CN

L11 1 S CARBON DIOXIDE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT, ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS, CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 09:31:56

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 09:32:09 ON 18 OCT 2002

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
 ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
 CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
 DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:32:11
 ON
 18 OCT 2002
 FILE 'REGISTRY' ENTERED AT 09:32:23 ON 18 OCT 2002
 SET SMARTSELECT ON
 L12 SEL L9 1- CHEM : 9 TERMS
 SET SMARTSELECT OFF
 FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
 ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
 CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
 DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:32:25
 ON
 18 OCT 2002
 L13 46682 S L12/BI
 FILE 'REGISTRY' ENTERED AT 09:34:52 ON 18 OCT 2002
 SET SMARTSELECT ON
 L14 SEL L10 1- CHEM : 14 TERMS
 SET SMARTSELECT OFF
 FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
 ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
 CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
 DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:34:54
 ON
 18 OCT 2002
 L15 302537 S L14/BI
 FILE 'REGISTRY' ENTERED AT 09:38:07 ON 18 OCT 2002
 SET SMARTSELECT ON
 L16 SEL L11 1- CHEM : 12 TERMS
 SET SMARTSELECT OFF
 FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
 ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
 CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
 DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:38:09
 ON
 18 OCT 2002
 L17 985775 S L16/BI
 L18 46668 S L9 OR L13
 L19 302270 S L10 OR L15
 L20 367987 S L11
 FILE 'REGISTRY' ENTERED AT 09:49:59 ON 18 OCT 2002
 FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
 ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
 CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
 DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODBASE, ...' ENTERED AT 09:50:05
 ON

18 OCT 2002

L21 997153 S L20 OR CARBON DIOXIDE OR CARBON OXIDE OR CARBON-12 DIOXIDE O
L22 85 S L21 (999A) L18 (9999A) L19

(FILE 'HOME' ENTERED AT 11:05:42 ON 18 OCT 2002)

FILE 'REGISTRY' ENTERED AT 11:05:54 ON 18 OCT 2002

L1 1 S LACTIC ACID/CN
L2 1 S DIMETHYL DISULFIDE/CN
L3 1 S CARBON DIOXIDE/CN

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 11:07:37

ON

18 OCT 2002

FILE 'REGISTRY' ENTERED AT 11:07:52 ON 18 OCT 2002

SET SMARTSELECT ON
L4 SEL L1 1- CHEM : 14 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 11:07:54

ON

18 OCT 2002

L5 302537 S L4/BI

FILE 'REGISTRY' ENTERED AT 11:11:35 ON 18 OCT 2002

SET SMARTSELECT ON
L6 SEL L2 1- CHEM : 7 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 11:11:37

ON

18 OCT 2002

L7 11229 S L6/BI

FILE 'REGISTRY' ENTERED AT 11:15:40 ON 18 OCT 2002

SET SMARTSELECT ON
L8 SEL L3 1- CHEM : 12 TERMS
SET SMARTSELECT OFF

FILE 'EMBASE, BIOSIS, EUROPATFULL, JAPIO, ADISALERTS, ADISINSIGHT,
ADISNEWS, BABS, BIOBUSINESS, BIOCOMMERCE, BIOTECHNO, CANCERLIT, CAPLUS,
CBNB, CEN, CIN, CONFSCI, DGENE, DIOGENES, DRUGB, DRUGLAUNCH, DRUGMONOG2,
DRUGNL, DRUGU, DRUGUPDATES, EMBAL, ESBIODASE, ...' ENTERED AT 11:15:44

ON

18 OCT 2002

L9 1055954 S L8/BI
L10 303037 S L1 OR L5
L11 11316 S L2 OR L7

L12 1057142 S L3 OR L9
L13 11399 S L11 OR METHYL DISULPHIDE
L14 82 S L13 AND L10 AND L12
L15 80 DUP REM L14 (2 DUPLICATES REMOVED)
L16 44 S L13 AND (MOSQUITO? OR AEDES OR ANOPHELES)
L17 37 DUP REM L16 (7 DUPLICATES REMOVED)
L18 29 S L16 AND (L10 OR L12)
L19 27 DUP REM L18 (2 DUPLICATES REMOVED)
L20 258 S L10 AND L13
L21 225 DUP REM L20 (33 DUPLICATES REMOVED)

L16 ANSWER 676 OF 1223 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1989:572677 CAPLUS
 DOCUMENT NUMBER: 111:172677
 TITLE: The flavor of cape gooseberry (*Physalis peruviana* L.)
 AUTHOR(S): Berger, Ralf G.; Drawert, Friedrich; Kollmannsberger, Hubert
 CORPORATE SOURCE: Inst. Lebensmitteltechnol. Anal. Chem., Tech. Univ. Muenchen, Freising, D-8050/12, Fed. Rep. Ger.
 SOURCE: Z. Lebensm.-Unters. Forsch. (1989), 188(2), 122-6
 CODEN: ZLUFAR; ISSN: 0044-3026
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CLASSIFICATION: 17-10 (Food and Feed Chemistry)
 Section cross-reference(s): 11

ABSTRACT:

The volatile constituents of cape gooseberry (*P. peruviana*) were characterized after liq./liq. extn. and fractionation of the flavor concs. on SiO₂ gel by high resolu. gas chromatog. and coupled gas chromatog.-mass spectrometry. Sniffing gas chromatog. on serially dild. exts. showed Me 2-methylbutyrate, 2,5-dimethyl-4-hydroxy-3(2H)-furanone and its 4-methoxy deriv., 4- and 5-octanolide, .beta.-ionone, and .beta.-damascenone to be impact components. The nonvolatile flavor fraction contained glucose, fructose, sucrose, citric acid, and smaller amts. of org. aliph. and benzoic acids. The bound forms of volatiles were dominated by benzyl alc., 2-methylpropanol, and 2-methylbutanol. The presence of high amts. of activated acyl moieties in the fruit was concluded indirectly from various data.

SUPPL. TERM: cape gooseberry flavor constituent; *Physalis* flavor constituent
 INDEX TERM: *Physalis peruviana*
 (flavor of, components of)
 INDEX TERM: Odor and Odorous substances
 (of cape gooseberry)
 INDEX TERM: Flavor
 (of cape gooseberry, components of)
 INDEX TERM: Alcohols, biological studies
 Aldehydes, biological studies
 Carbohydrates and Sugars, biological studies
 Carboxylic acids, biological studies
 Fatty acids, biological studies
 Glycosides
 Ketones, biological studies
 Lactones
 Terpenes and Terpenoids, biological studies
 ROLE: BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)
 (of cape gooseberry, flavor in relation to)
 INDEX TERM: Carboxylic acids, esters
 Fatty acids, esters
 ROLE: BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)
 (alkyl esters, of cape gooseberry, flavor in relation to)

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- 50-21-5, biological studies 50-99-7, D-Glucose,
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biological studies 57-11-4, Octadecanoic acid, biological
studies 57-48-7, D-Fructose, biological studies
- 57-50-1,
biological studies 60-12-8, 2-Phenylethanol 60-33-3,
9,12-Octadecadienoic acid (Z,Z)-, biological studies
64-19-7, Acetic acid, biological studies 65-85-0, Benzoic
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n-Propanol, biological studies 71-36-3, n-Butanol,
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71-41-0, n-Pentanol, biological studies 75-85-4 76-22-2
77-92-9, Citric acid, biological studies 78-83-1,
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.beta.-Ionone 80-56-8, .alpha.-Pinene 93-58-3, Methyl
benzoate 93-58-3D, Methyl-benzoate, glycosides 93-89-0,
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.alpha.-Terpineol 98-55-5D, .alpha.-Terpineol, glycosides
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Benzenemethanol, glycosides 100-52-7, Benzaldehyde,
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4-Octanolide, glycosides 105-21-5, 4-Heptanolide
105-53-3, Diethyl malonate 105-54-4, Ethyl butyrate
106-18-3, Butyl-dodecanoate 106-22-9D, Citronellol,
glycosides 106-24-1, Geraniol 106-28-5, (E,E)-Farnesol
106-32-1, Ethyl octanoate 106-33-2, Ethyl dodecanoate
106-70-7, Methyl hexanoate **107-87-9, 2-
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123-35-3, Myrcene 123-42-2 123-66-0, Ethyl hexanoate
123-73-9 123-86-4, Butyl-acetate 124-06-1, Ethyl
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124-19-6, n-Nonanal 127-91-3, .beta.-Pinene 137-32-6D,
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499-75-2D, Carvacrol, glycosides 503-74-2,
3-Methylbutyric
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Benzylmethyl ether 544-63-8, N-Tetradecanoic acid,
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586-62-9, Terpinolene 589-38-8, 3-Hexanone 589-75-3,
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1-Penten-3-ol 621-82-9, Cinnamic acid, biological studies
623-42-7 628-97-7, Ethyl hexadecanoate 695-06-7,
4-Hexanolide 698-76-0, 5-Octanolide 698-76-0D,
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1117-55-1, Hexyl-octanoate 1189-09-9 1197-01-9
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(E)-cinnamate 1937-62-8 2305-25-1, Ethyl
3-hydroxy-hexanoate 2349-14-6D, Methyl-geraniate,
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furanone 4077-47-8, 2,5-Dimethyl-4-methoxy-3(2H)-furanone
4192-77-2, Ethyl (E)-cinnamate 4312-99-6, 1-Octen-3-one
5461-06-3 6032-29-7, 2-Pentanol 6728-26-3 7132-64-1,
Methyl pentadecanoate 7367-82-0 7367-87-5 7367-87-5D,
glycosides 7367-90-0, Ethyl 3-hydroxyoctanoate
7367-90-0D, Ethyl 3-hydroxyoctanoate, glycosides
7452-79-1, Ethyl 2-methylbutyrate 7500-42-7,
2,2,6-Trimethyl-6-hydroxy-cyclohexanone 7786-61-0D,
2-Methoxy-4-vinylphenol, glycosides 10473-14-0
17092-92-1, Dihydroactinidiolide 17417-00-4 18787-63-8,
2-Hexadecanone 21188-58-9D, Methyl 3-hydroxyhexanoate,
glycosides 23267-57-4, 5,6-Epoxy-.beta.-ionone
23726-93-4 25447-95-4, Hexadecenoic acid 29960-49-4
30336-14-2, 2-Octen-4-olide 30673-36-0, Butyl-decanoate
30673-38-2 36653-82-4, n-Hexadecanol 37811-72-6
41654-19-7 41725-90-0 75587-05-2 75587-05-2D, Ethyl
5-hydroxyoctanoate, glycosides 101853-49-0D, Methyl
5-hydroxyoctanoate, glycosides
ROLE: BOC (Biological occurrence); BIOL (Biological study);
OCCU (Occurrence)

(of cape gooseberry, flavor in relation to)

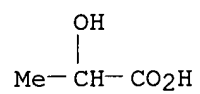
IT 50-21-5, biological studies 107-87-9, 2-

Pentanone

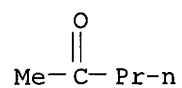
RL: BOC (Biological occurrence); BIOL (Biological study); OCCU
(Occurrence)

(of cape gooseberry, flavor in relation to)

RN 50-21-5 CAPLUS
CN Propanoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 107-87-9 CAPLUS
CN 2-Pentanone (8CI, 9CI) (CA INDEX NAME)



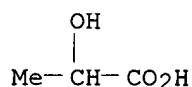
L16 ANSWER 1218 OF 1223 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1972:473862 CAPLUS
DOCUMENT NUMBER: 77:73862
TITLE: Gas-chromatographic analysis of volatile components
of

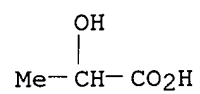
grass silage
AUTHOR(S): Kibe, Kyuei; Kagura, Seizo
CORPORATE SOURCE: Fac. Agric., Shinshu Univ., Ina, Japan
SOURCE: Nippon Chikusan Gakkai-Ho (1972), 43(6), 342-4
CODEN: NICKA3
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
CLASSIFICATION: 17-5 (Foods)

ABSTRACT:

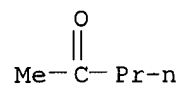
Approx. 2.5 kg each of 2 grass-legume silages was distd. under normal atm. pressure, and 10 l. of distillate from each sample was extd. with ether. The ether exts. were analyzed by gas-liq. chromatog. In the silage A exts., ProH and (or) valeraldehyde and capron-aldehyde were the major constituents and EtOH, BuOH, **methyl-propyl ketone**, Bu-OAc, and unknown components of an unidentified peak were the minor constituents. The distillate from silage B contained appreciable amts. of EtOH, ProH and (or) valeraldehyde and butyraldehyde and the unknown constituents of an unidentified peak. It was assumed that acetaldehyde and (or) propionaldehyde were included in the 1st peak, but they were not sepd. with ether. An anal. method for the head space vapor was effective to investigate the constituents with low boiling points. The butyric and caproic acid contents of silage A showed higher values, but in silage B the contents of acetic and lactic acids were higher. In feeding trials with goats, silage B was more palatable than silage A.

SUPPL. TERM: silage volatiles chromatog
INDEX TERM: Silage
(grass-legume, detn. of volatiles of)
INDEX TERM: Legume
(silage of grass and, chromatography of volatiles of)
INDEX TERM: Grass
(silage, volatiles of)
INDEX TERM: 50-21-5, analysis 64-17-5, analysis 64-19-7,
analysis 66-25-1 71-23-8, analysis 71-36-3, analysis
107-87-9 107-92-6, analysis 110-62-3 123-72-8
123-86-4 142-62-1, analysis
ROLE: ANT (Analyte); ANST (Analytical study)
(detection of, in silage volatiles)
IT 50-21-5, analysis 107-87-9
RL: ANT (Analyte); ANST (Analytical study)
(detection of, in silage volatiles)
RN 50-21-5 CAPLUS
CN Propanoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)





RN 107-87-9 CAPLUS
 CN 2-Pentanone (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 808 OF 1223 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
DUPLICATE 24

ACCESSION NUMBER: 1986:170916 BIOSIS
DOCUMENT NUMBER: BA81:81332
TITLE: MONITORING CHEMICAL CHANGES IN CHEDDAR CHEESE DURING AGING
BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AND GAS
CHROMATOGRAPHY TECHNIQUES.

AUTHOR(S): MARSILI R
CORPORATE SOURCE: DEAN FOODS CO., 1126 KILBURN AVE., ROCKFORD, IL 61101.
SOURCE: J DAIRY SCI, (1985 (RECD 1986)) 68 (12), 3155-3161.
CODEN: JDSCAE. ISSN: 0022-0302.

FILE SEGMENT: BA; OLD

LANGUAGE: English

ABSTRACT:

The concentrations of several chemical metabolites in Cheddar cheese were monitored by various chromatographic techniques during the aging process to learn which metabolites were the best predictors of the glycolytic, lipolytic, and proteolytic age of the cheese. Pyruvic, lactic, acetic, and propionic acids

were measured by ion-exchange high performance liquid chromatography; acetone, 2-butanone, ethanol, 2-pentanone, 2-butanol, and n-propanol

were monitored by headspace gas chromatography; free fatty acids were quantitated (without derivatization) by gas chromatography; and free amino acids were determined as their o-phthaldehyde derivatives by high performance liquid chromatography. The best predictors of the glycolytic age were propionic

acid and acetic acid; the best predictors of lipolysis were the free fatty acids C10, C12, C14, and C16; and the best predictors of proteolysis were the free amino acids leucine, methionine, and glutamic acid. The volatile metabolites determined by headspace gas chromatography were not good indicators of aging; however, they did provide useful information related to flavor problems. Cheddar cheese aged at elevated temperatures produced propionic acid, acetic acid, and free amino acids at significantly faster rates

than the other chemicals that were monitored.

CONCEPT CODE: Biochemical Studies - General 10060
Biochemical Studies - Proteins, Peptides and Amino Acids
10064
Biochemical Studies - Lipids 10066
Biophysics - General Biophysical Techniques 10504
Food Technology - Malts, Brews and Other Fermentation
Products *13512
Food Technology - Dairy Products *13518
Food Technology - Evaluations of Physical and Chemical
Properties *13530
Food Technology - Preparation, Processing and Storage
*13532

INDEX TERMS: Miscellaneous Descriptors
PYRUVIC-ACID **LACTIC-ACID** ACETIC-ACID
PROPIONIC-ACID ACETONE N PROPANOL 2 BUTANONE ETHANOL
2 PENTANONE 2 BUTANOL FREE FATTY-ACIDS
LEUCINE METHIONINE GLUTAMIC-ACID FOOD PROCESSING

REGISTRY NUMBER: 50-21-5 (**LACTIC-ACID**)
64-17-5 (ETHANOL)

64-19-7 (ACETIC-ACID)

67-64-1 (ACETONE)

71-23-8 (N PROPANOL)

78-92-2 (2 BUTANOL)

78-93-3 (2 BUTANONE)

79-09-4 (PROPIONIC-ACID)

107-87-9 (2 PENTANONE)

127-17-3 (PYRUVIC-ACID)

56-86-0Q, 6899-05-4Q (GLUTAMIC-ACID)

61-90-5Q, 7005-03-0Q (LEUCINE)

63-68-3Q, 7005-18-7Q (METHIONINE)

L16 ANSWER 753 OF 1223 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1987:83193 CAPLUS
 DOCUMENT NUMBER: 106:83193
 TITLE: Study of flavor compounds from Parmigiano Reggiano cheese
 AUTHOR(S): Meinhart, E.; Schreier, P.
 CORPORATE SOURCE: Univ. Wuerzburg, Wuerzburg, Fed. Rep. Ger.
 SOURCE: Milchwissenschaft (1986), 41(11), 689-91
 CODEN: MILCAD; ISSN: 0026-3788
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CLASSIFICATION: 17-8 (Food and Feed Chemistry)

ABSTRACT:
 The flavor substances from Parmigiano Reggiano cheese were isolated by std. controlled high-vacuum distn./solvent extn. Alk. treatment (NaHCO₃, 5%) of the ext. led to sepn. of acids, which were derivatized to their Me esters. The neutral volatiles were pre-separated by liq. chromatog. and combined capillary gas chromatog.-mass spectrometry, in total 160 flavor compds. were identified. These substances consisted of 38 esters, 31 carbonyls, 33 alcs., 29 acids, 9 hydrocarbons, 9 lactones, and 11 volatiles with misc. structures. Among the neutral volatiles, quant., ethyl hexanoate [123-66-0], 2-heptanone [110-43-0], and 2-pentanol [6032-29-7] predominated.

SUPPL. TERM: cheese flavor compd; volatile substance cheese
 INDEX TERM: Odor and Odorous substances
 Volatile substances
 (of Parmigiano Reggiano cheese)
 INDEX TERM: Alcohols, biological studies
 Aldehydes, biological studies
 Carboxylic acids, biological studies
 Esters, biological studies
 Hydrocarbons, biological studies
 Ketones, biological studies
 Lactones
 ROLE: BOC (Biological occurrence); BIOL (Biological study);
 OCCU (Occurrence)
 (of Parmigiano Reggiano cheese)
 INDEX TERM: Cheese
 (Parmesan, flavor compds. of)
 INDEX TERM: **50-21-5, 2-Hydroxypropanoic**
acid, biological studies 57-10-3, Hexadecanoic
 acid, biological studies 57-11-4, Octadecanoic acid,
 biological studies 60-12-8, 2-Phenylethanol 60-33-3,
 Linoleic acid, biological studies 64-19-7, Acetic acid,
 biological studies 65-85-0, Benzoic acid, biological
 studies 66-25-1, Hexanal 71-23-8, 1-Propanol,
 biological
 studies 71-36-3, 1-Butanol, biological studies 71-41-0,
 1-Pentanol, biological studies 71-43-2, Benzene,
 biological studies 75-65-0, 2-Methyl-2-propanol,
 biological studies 75-85-4, 2-Methyl-2-butanol 76-22-2,
 Camphor 78-59-1 78-70-6, Linalool 78-83-1,
 2-Methyl-1-propanol, biological studies 78-92-2,
 2-Butanol

79-09-4, Propanoic acid, biological studies 79-31-2,
 2-Methylpropanoic acid 88-09-5, 2-Ethylbutanoic acid
 90-05-1, Guaiacol 90-12-0 91-20-3, biological studies
 91-57-6 95-16-9 95-47-6, o-Xylene, biological studies
 96-22-0, 3-Pentanone 98-00-0 98-01-1, Furfural,
 biological studies 98-55-5, .alpha.-Terpineol 98-86-2,
 Acetophenone, biological studies 99-96-7,

4-Hydroxybenzoic

acid, biological studies 100-41-4, Ethylbenzene,
 biological studies 100-51-6, Benzyl alcohol, biological
 studies 100-52-7, Benzaldehyde, biological studies
 104-50-7 104-76-7, 2-Ethyl-1-hexanol 105-54-4, Ethyl
 butanoate 106-32-1, Ethyl octanoate 106-35-4,
 3-Heptanone 106-42-3, p-Xylene, biological studies
 106-44-5, p-Cresol, biological studies 106-68-3,
 3-Octanone **107-87-9, 2-Pentanone**
 107-92-6, Butanoic acid, biological studies 108-29-2,
 .gamma.-Valerolactone 108-38-3, biological studies
 108-50-9, 2,6-Dimethylpyrazine 108-88-3, Toluene,
 biological studies 108-94-1, Cyclohexanone, biological
 studies 108-95-2, Phenol, biological studies 109-52-4,
 Pentanoic acid, biological studies 110-38-3,
 Ethyldecanoate 110-43-0, 2-Heptanone 110-62-3, Pentanal
 110-86-1, Pyridine, biological studies 111-13-7,
 2-Octanone 111-14-8 111-27-3, 1-Hexanol, biological
 studies 111-70-6, 1-Heptanol 111-71-7, Heptanal
 111-87-5, 1-Octanol, biological studies 112-05-0,

Nonanoic

acid 112-12-9, 2-Undecanone 112-30-1, 1-Decanol
 112-31-2, Decanal 112-37-8, Undecanoic acid 112-40-3,
 Dodecane 112-53-8, 1-Dodecanol 112-72-1, 1-Tetradecanol
 112-80-1, Oleic acid, biological studies 112-92-5,
 1-Octadecanol 112-95-8, Eicosane 116-53-0,
 2-Methylbutanoic acid 120-75-2 122-00-9 122-78-1,
 Phenylacetaldehyde 123-42-2 123-51-3 123-66-0, Ethyl
 hexanoate 123-96-6, 2-Octanol 123-99-9, biological
 studies 124-07-2, biological studies 124-13-0, Octanal
 124-18-5, Decane 124-19-6, Nonanal 141-78-6, Ethyl
 acetate, biological studies 141-79-7,

4-Methyl-3-penten-2-

one 142-62-1, Hexanoic acid, biological studies
 143-07-7, Dodecanoic acid, biological studies 143-08-8,
 1-Nonanol 149-57-5 290-37-9, Pyrazine 334-48-5,
 Decanoic acid 503-74-2, 3-Methylbutanoic acid 543-49-7,
 2-Heptanol 544-63-8, Tetradecanoic acid, biological
 studies 544-76-3, Hexadecane 584-02-1, 3-Pentanol
 589-38-8, 3-Hexanone 590-86-3, 3-Methylbutanal

591-78-6,

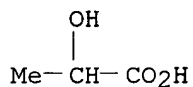
2-Hexanone 593-08-8, 2-Tridecanone 593-45-3, Octadecane
 620-02-0, 5-Methylfurfural 623-36-9, 2-Methyl-2-pentenal
 623-37-0, 3-Hexanol 626-93-7, 2-Hexanol 628-99-9,
 2-Nonanol 629-50-5, Tridecane 629-59-4, Tetradecane
 629-62-9, Pentadecane 629-78-7 629-92-5, Nonadecane
 693-54-9 695-06-7, .gamma.-Hexalactone 698-76-0,
 .delta.-Octalactone 705-86-2, .delta.-Decalactone

706-14-9, .gamma.-Decalactone 713-95-1,
 .delta.-Dodecalactone 764-37-4, (E)-3-Penten-1-ol
 821-55-6, 2-Nonanone 928-95-0, (E)-2-Hexen-1-ol
 1002-84-2, Pentadecanoic acid 1120-21-4, Undecane
 2305-05-7 2345-28-0, 2-Pentadecanone 3301-90-4,
 .delta.-Heptalactone 4536-23-6 5910-89-4,
 2,3-Dimethylpyrazine 6032-29-7, 2-Pentanol 14436-32-9,
 9-Decenoic acid 18138-04-0, 2,3-Diethyl-5-methylpyrazine
 25234-25-7 36653-82-4, 1-Hexadecanol 55031-15-7
 ROLE: BOC (Biological occurrence); BIOL (Biological study);
 OCCU (Occurrence)

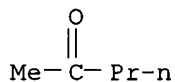
(of Parmigiano Reggiano cheese)

IT **50-21-5, 2-Hydroxypropanoic acid,**
 biological studies **107-87-9, 2-Pentanone**
 RL: BOC (Biological occurrence); BIOL (Biological study); OCCU
 (Occurrence)
 (of Parmigiano Reggiano cheese)

RN 50-21-5 CAPLUS
 CN Propanoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 107-87-9 CAPLUS
 CN 2-Pentanone (8CI, 9CI) (CA INDEX NAME)

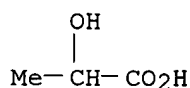


L16 ANSWER 645 OF 1223 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1991:447943 CAPLUS
 DOCUMENT NUMBER: 115:47943
 TITLE: Isolation and identification of dry salami volatiles
 AUTHOR(S): Berger, Ralf G.; Macku, Carlos; German, J. Bruce;
 Shibamoto, Takayuki
 CORPORATE SOURCE: Inst. Lebensmitteltechnol. Anal. Chem., Tech. Univ.
 Muenchen, Freising, D-8050/12, Germany
 SOURCE: Journal of Food Science (1990), 55(5), 1239-42
 CODEN: JFDSAZ; ISSN: 0022-1147
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CLASSIFICATION: 17-7 (Food and Feed Chemistry)

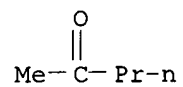
ABSTRACT:
 The volatile constituents of air-dried, mold-fermented salami sausage were isolated from meat and casing using a dynamic headspace/continuous solvent extn. method. Apolar and polar fractions of the aroma concs., and a methylated acidic ether ext. of the defatted meat were analyzed by high-resoln. gas chromatog. and coupled gas chromatog.-mass spectrometry. Most volatiles identified were derived from lipid degrdn., from pepper (added as a spice), and from the degrdn. of pepper terpenes and phenolics. Neither typical intermediates of fatty acid autoxidn. nor N-contg. volatiles were among the 68 identified compds. The contribution of lipid precursors was essential to overall flavor as were the microbial activities.

SUPPL. TERM: salami sausage volatile flavor
 INDEX TERM: Lipids, compounds
 ROLE: BIOL (Biological study)
 (compds., volatile, in salami sausage)
 INDEX TERM: Flavor
 Odor and Odorous substances
 Aldehydes, biological studies
 Ketones, biological studies
 Terpenes and Terpenoids, biological studies
 ROLE: BIOL (Biological study)
 (of salami sausage)
 INDEX TERM: Pepper (condiment)
 (volatile products of, in salami sausage)
 INDEX TERM: Carotenes and Carotenoids, biological studies
 ROLE: BIOL (Biological study)
 (nor-, of salami sausage)
 INDEX TERM: Meat
 (sausage, salami, volatile compds. of)
 INDEX TERM: **50-21-5, Lactic acid**, biological studies 57-11-4, Octadecanoic acid, biological studies 59-67-6, Nicotinic acid, biological studies 60-33-3, 9,12-Octadecadienoic acid (Z,Z)-, biological studies 64-19-7, Acetic acid, biological studies 66-25-1, n-Hexanal 71-41-0, 1-Pentanol, biological studies 77-92-9, Citric acid, biological studies 78-70-6,
 Linalool
 79-92-5, Camphene 80-56-8, .alpha.-Pinene 87-44-5,

.beta.-Caryophyllene 93-15-2, Methyleugenol 94-59-7,
 Safrole 96-22-0, 3-Pentanone 97-61-0, 2-Methylpentanoic
 acid 97-65-4, biological studies 99-83-2,
 .alpha.-Phellandrene 99-85-4, .gamma.-Terpinene
 99-86-5,
 .alpha.-Terpinene 99-87-6, 4-Isopropyl-1-methylbenzene
 100-52-7, Benzaldehyde, biological studies 100-66-3,
 Methoxybenzene, biological studies **107-87-9**,
2-Pentanone 107-92-6, Butanoic acid,
 biological studies 107-93-7 108-10-1, 4-Methyl-2
 -**pentanone** 108-39-4, biological studies
 108-95-2, Phenol, biological studies 110-12-3,
 5-Methyl-2-hexanone 110-15-6, Butanedioic acid,
 biological
 studies 110-43-0, 2-Heptanone 111-13-7, 2-Octanone
 111-71-7, n-Heptanal 112-12-9, 2-Undecanone 112-31-2,
 n-Decanal 123-11-5, 4-Methoxybenzaldehyde, biological
 studies 123-35-3, Myrcene 123-51-3 124-07-2, Octanoic
 acid, biological studies 124-13-0, n-Octanal 124-19-6,
 n-Nonanal 127-91-3, .beta.-Pinene 138-86-3, Limonene
 141-82-2, Propanedioic acid, biological studies 142-50-7,
 Nerolidol 142-62-1, Hexanoic acid, biological studies
 143-07-7, Dodecanoic acid, biological studies 334-48-5,
 Decanoic acid 483-77-2, Calamenene 503-74-2,
 3-Methylbutanoic acid 544-63-8, Tetradecanoic acid,
 biological studies 555-10-2, .beta.-Phellandrene
 562-74-3 586-62-9, Terpinolene 598-75-4,
 3-Methyl-2-butanol 607-91-0, Myristicin 623-36-9
 821-55-6, 2-Nonanone 928-95-0, (E)-2-Hexenol 1115-11-3
 1139-30-6, Caryophyllene-epoxide 2027-47-6,
 9-Octadecenoic
 acid 2867-05-2, .alpha.-Thujene 3387-41-5, Sabinene
 3391-86-4, 1-Octene-3-ol 3856-25-5, .alpha.-Copaene
 6032-29-7, 2-Pentanol 7664-38-2, Phosphoric acid,
 biological studies 10317-17-6, 3-Oxetane-1-methylethyl
 11072-28-9, Dimethyloctenone 13466-78-9, 3-Carene
 13877-91-3, .beta.-Ocimene 25447-95-4, Hexadecenoic acid
 27598-81-8, Dimethoxybenzene 28039-99-8, Hexadecenoic
 acid
 55145-28-3 134845-73-1
 ROLE: BIOL (Biological study)
 (of salami sausage)
 IT **50-21-5, Lactic acid**, biological studies
107-87-9, 2-Pentanone
 RL: BIOL (Biological study)
 (of salami sausage)
 RN 50-21-5 CAPLUS
 CN Propanoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 107-87-9 CAPLUS
CN 2-Pentanone (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 809 OF 1223 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1985:559286 CAPLUS
DOCUMENT NUMBER: 103:159286
TITLE: Tilsit aroma
AUTHOR(S): Ney, K. H.
CORPORATE SOURCE: Anstrichmittel, 2000/56, Fed. Rep. Ger.
SOURCE: Fette, Seifen, Anstrichm. (1985), 87(7), 289-94
CODEN: FSASAX; ISSN: 0015-038X

DOCUMENT TYPE: Journal
LANGUAGE: German
CLASSIFICATION: 17-8 (Food and Feed Chemistry)
ABSTRACT:

The 12 keto acids, 8 amines, 28 fatty acids, 6 amides, 3 esters, 3 methylketones, 5 aldehydes, 5 primary alcs., 3 secondary alcs., H₂S, and ***lactic*** acid [50-21-5] assocd. with the flavor and taste of Tilsit cheese are tabulated. The fatty acids are key ingredients in the aroma, with butyric acid [107-92-6], isobutyric acid [79-31-2], isovaleric acid [503-74-2] and acetic acid [64-19-7] being major contributors. An aromagram of the cheese is given.

SUPPL. TERM: aroma cheese Tilsit; fatty acid Tilsit cheese flavor
INDEX TERM: Odor and Odorous substances

(of Tilsit cheese)

INDEX TERM: Alcohols, biological studies
Aldehydes, biological studies
Amides, biological studies
Amines, biological studies
Esters, biological studies
Fatty acids, biological studies
ROLE: BIOL (Biological study)
(of Tilsit cheese aroma)

INDEX TERM: Flavor
(of Tilsit cheese, components of)

INDEX TERM: Ketones, biological studies
ROLE: BIOL (Biological study)
(Me, of Tilsit cheese aroma)

INDEX TERM: Cheese
(Tilsit, aroma compds. of)

INDEX TERM: Fatty acids, biological studies
ROLE: BIOL (Biological study)
(branched, of Tilsit cheese aroma)

INDEX TERM: 57-10-3, biological studies 544-63-8, biological studies
ROLE: BIOL (Biological study)
(branched, of Tilsit cheese aroma)

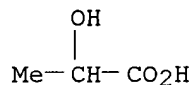
INDEX TERM: 506-12-7D, branched
ROLE: BIOL (Biological study)
(d)

INDEX TERM: 50-21-5, biological studies 51-45-6, biological
studies 57-10-3, biological studies 57-11-4, biological
studies 60-35-5, biological studies 64-04-0 64-19-7,
biological studies 71-23-8, biological studies 71-36-3,
biological studies 75-04-7, biological studies 75-07-0,
biological studies 79-05-0 79-09-4, biological studies
79-31-2 105-54-4 106-32-1 107-10-8, biological

studies

107-87-9 107-92-6, biological studies 109-52-4,
 biological studies 109-73-9, biological studies
 109-89-7, biological studies 110-43-0 110-62-3
 111-14-8 111-26-2 111-27-3, biological studies
 111-87-5, biological studies 112-05-0 112-37-8
 112-80-1, biological studies 123-38-6, biological studies
 123-66-0 123-72-8 124-07-2, biological studies
 124-40-3, biological studies 127-17-3, biological studies
 142-62-1, biological studies 143-07-7, biological studies
 143-08-8 156-06-9 156-39-8 298-12-4 328-42-7
 328-50-7 334-48-5 503-74-2 541-35-5 541-46-8
 543-49-7 544-63-8, biological studies 563-83-7
 583-92-6 626-97-1 628-99-9 638-53-9 638-53-9D,
 branched 646-07-1 821-55-6 1002-84-2 1002-84-2D,
 branched 1113-60-6 1460-34-0 1944-42-9 2504-83-8
 3268-49-3 6032-29-7 7783-06-4, biological studies
 19456-81-6 26444-03-1 26446-27-5 28039-99-8
 ROLE: BIOL (Biological study)
 (of Tilsit cheese aroma)

IT **50-21-5**, biological studies **107-87-9**
 RL: BIOL (Biological study)
 (of Tilsit cheese aroma)
 RN 50-21-5 CAPLUS
 CN Propanoic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 107-87-9 CAPLUS
 CN 2-Pentanone (8CI, 9CI) (CA INDEX NAME)

